

DERWENT-ACC-NO: 2002-359111

DERWENT-WEEK: 200309

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TITLE: Refrigerator with ejector instead of expansion  
apparatus, absorbs and discharges much more  
heat by  
circulating refrigerant with the same mass flow

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PRIORITY-DATA: 2000KR-0029624 (May 31, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
KR 346273 B	July 26, 2002	N/A
000 F25B 039/00		
KR 2001108738 A	December 8, 2001	N/A
001 F25B 039/00		

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
KR 346273B	N/A	2000KR-0029624
May 31, 2000		
KR 346273B	Previous Publ.	KR2001108738
N/A		
KR2001108738A	N/A	2000KR-0029624
May 31, 2000		

INT-CL (IPC): F25B039/00

ABSTRACTED-PUB-NO: KR2001108738A

BASIC-ABSTRACT:

NOVELTY - The refrigerator having an ejector is provided to absorb  
and  
discharge much more heat by circulating refrigerant with the same  
mass flow,  
and to improve the performance of the refrigerator by increasing the  
efficiency

of a compressor with reducing mass flow.

DETAILED DESCRIPTION - The refrigerator is composed of a compressor (31) generating high-temperature and high-pressure refrigerant gas from low-temperature and low-pressure refrigerant; a condenser (32) generating low-temperature and high-pressure liquid refrigerant by cooling refrigerant from the compressor; an ejector (33) mixing liquid refrigerant from the condenser and low-pressure refrigerant gas from an evaporator (35); a separator (34) moving liquid refrigerant to the evaporator and refrigerant gas to the compressor by separating refrigerant mixture; the evaporator absorbing heat by vaporizing liquid refrigerant from the separator; and valves (41,42,43) regulating flow rate of pipes for normal operation of the refrigerator. The efficiency of the compressor and the performance of the refrigerator are improved by circulating refrigerant with the same mass flow.

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS: REFRIGERATE EJECT INSTEAD EXPAND APPARATUS ABSORB DISCHARGE MORE

HEAT CIRCULATE REFRIGERATE MASS FLOW

DERWENT-CLASS: Q75 X27

EPI-CODES: X27-F02A; X27-F03;

